From: CANNON, TIM G. (AIT) [TC7592@msg.ameritech.com]
Sent: Wednesday, May 16, 2001 8:30 AM
To: CURTIN, TY (AIT)
Subject: RE: Flex ANI with LTST

[redacted]

RE: SFID and OFID Features for...

Ty,

How ya' been?

I'll include here my notes on the FlexANI issue. It appears that the 5ESS requires the 4 Secured Feature IDs described below. AIT already owns SFID 38 and SFID 142. The 2 new features are SFID 332 and SFID 528. When those 2 are activated, the 5ESS can turn on Optioned Features 744 and 745 so that FlexANI will work with AIN. Just ignore the switch printouts below. The descriptions are from the 5ESS Translations Guide and AIN documentation. There is no cost to turn on Optioned Features.

Through the rumor mill, I've heard that AT&T is suing us over FlexANI issues, but I can't relate any details. I've recommended that the FlexANI Product Manager be involved if these 2 additional Secured Features are purchased.

I'm also attaching an e-mail from Kathy Wright, the TRI tester.

<<RE: SFID and OFID Features for FlexANI in LT/ST 5ESS Test Offices>>

Tim

FlexANI Requirements
2/23/01 3:16 PM

Last Update: 2/26/01 11:02AM

- 2/26 Include Feature Definitions.
- 2/23 Initial document.

==========

E-mail 1

-----Original Message-----
From: GRUCHALA, CAROL (AIT)
Sent: Friday, February 23, 2001 1:27 PM
To: CANNON, TIM G. (AIT)
Cc: HAMILTON-OPPER, SALLY (AIT)
Subject: FW: FlexANI problem

Tim-

Hopefully this will help determine if all of the options are set correctly.

Carol

-----Original Message-----

From: John Rosenberg [mailto:jrrosenberg@lucent.com]
Sent: Friday, February 23, 2001 1:13 PM
To: GRUCHALA, CAROL (AIT)
Subject: Re: FlexANI problem

Carol -

Sorry about our Voice Mail not working yesterday. Strange. I think it's working today. Anyway....

Here's what you need for Flex ANI and/or Pay Phone comp to work with AIN TF and AIN in general...

SFID 38 - Flex ANI
SFID 142 - Flex ANI Enhancements
SFID 332 - Pay Phone Compensation
SFID 528 - ASP Interworking with Flex ANI and Pay Phone Comp

OFID 744 - Enables ASP non-Toll Free triggers to interwork with Flex ANI
OFID 745 - Enables ASP TollFree triggers to interwork with Flex ANI and PayPhone comp

John

At 11:04 AM 2/23/2001, you wrote:
>John-
>
>I tried calling yesterday afternoon but your phone didn't forward to
>voicemail and I'm on a conference call that should last for a few hours.
>
>I talked to the field tester and clarified the issue. We had developed a
>logic which does not return the CPST and in the lab the FLexANI worked as it
>should with a '70'. In the field the same test (on a similar line) the
>result was still '00'. The lab switch has everything turned on - while the
>field may not. I believe there are two secured features relating to this
>that are turned on the field switch. Do you have any insight on either what
>could be causing this or if some other settings need to be made?
>
>Thanks,
>
>Carol

E-mail 2

-----Original Message-----
From: CANNON, TIM G. (AIT)
Sent: Friday, February 23, 2001 4:14 PM
To: GRUCHALA, CAROL (AIT)
Cc: HAMILTON-OPPER, SALLY (AIT); WRIGHT, KATHRYN G (SBCTRI); BLACKBURN, STEVE (AIT); HOWARD, JAMES D. (AIT)
Subject: SFID and OFID Features for FlexANI in LT/ST 5ESS Test Offices

Carol,

Thanks for the e-mail from Lucent's John Rosenberg. Only 2 of the 6 features
are turned on in both test offices we're using for LT/ST. See below. I guess

we need to go to the switch planner to see if these should be turned on.

Kathy,

Do you have these 6 features turned on at TRI?

Thanks,

Tim

Tim Cannon

New Technology Introduction
Field Integration & Testing of Services

225 W. Randolph St. 14A6
Chicago, IL 60606-1824
312.220.2616 (Office)
312.606.0584 (Fax)

FlexANI Requirements
2/23/01 3:16 PM

From: John Rosenberg [mailto:jrrosenberg@lucent.com]
Sent: Friday, February 23, 2001 1:13 PM
To: GRUCHALA, CAROL (AIT)
Subject: Re: FlexANI problem

Carol -

Sorry about our Voice Mail not working yesterday. Strange. I think it's working today. Anyway....

Here's what you need for Flex ANI and/or Pay Phone comp to work with AIN TF and AIN in general...

SFID 38 - Flex ANI
SFID 142 - Flex ANI Enhancements
SFID 332 - Pay Phone Compensation
SFID 528 - ASP Interworking with Flex ANI and Pay Phone Comp

OFID 744 - Enables ASP non-Toll Free triggers to interwork with Flex ANI
OFID 745 - Enables ASP TollFree triggers to interwork with Flex ANI and PayPhone comp

John

Feature Summary in LT/ST Test Offices

	CHCGILFRDS3	MILWWI10DS0
SFID 38 -	Y	Y
SFID 142 -	Y	Y
SFID 332 -	N	N
SFID 528 -	N	N
OFID 744 -	N	N
OFID 745 -	N	N

Chicago Franklin DS3 Test Office (CHCGILFRDS3)

RC/V 8.22

5ESS SWITCH 1518D3
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

		ROW	16. MAP LIST	
*1. FEATURE ID	38	1		12
*2. MODULE	OFC	2		13
3. PASSWD		3		14
4. ACTIVE	Y	4		15
FEATURE NAME	Flexible ANI	5		16
RELEASE	5E6	6		17
DEPENDENT ID	142	7		18
MAP X		8		19
MAP Y		9		20
10. DEACT FEATURES	N	10		21
		11		22

5ESS SWITCH 1518D3
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

		ROW	16. MAP LIST	
*1. FEATURE ID	142	1		12
*2. MODULE	OFC	2		13
3. PASSWD		3		14
4. ACTIVE	Y	4		15
FEATURE NAME	Flexible ANI Enhancements	5		16
RELEASE	5E9(1)	6		17
DEPENDENT ID	0	7		18
MAP X		8		19
MAP Y		9		20
10. DEACT FEATURES	N	10		21
		11		22

5ESS SWITCH 1518D3
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

		ROW	16. MAP LIST	
*1. FEATURE ID	332	1		12
*2. MODULE	OFC	2		13
3. PASSWD		3		14
4. ACTIVE	N	4		15
FEATURE NAME	Payphone Comp of Tollfree	5		16
RELEASE	5E11(1)	6		17
DEPENDENT ID	0	7		18
MAP X		8		19
MAP Y		9		20
10. DEACT FEATURES	N	10		21
		11		22

5ESS SWITCH 1518D3
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

		ROW	16. MAP LIST	
*1. FEATURE ID	528	1		12
*2. MODULE	OFC	2		13
3. PASSWD		3		14
4. ACTIVE	N	4		15
FEATURE NAME	ASP Interwork w/ Flex ANI	5		16
RELEASE	5E13(1)	6		17
DEPENDENT ID	0	7		18
MAP X		8		19
MAP Y		9		20
10. DEACT FEATURES	N			

10		21	
11		22	

RC/V 8.31

5ESS SWITCH 1518D3
RECENT CHANGE 8.31
(57132) OPTIONED FEATURES

*1. FEATURE ID 744 FEATURE NAME AIN Flex ANI
*2. MODULE OFC RELEASE 5E13(1)
3. ACTIVE N

AUDIT LIST

5ESS SWITCH 1518D3
RECENT CHANGE 8.31
(57132) OPTIONED FEATURES

*1. FEATURE ID 745 FEATURE NAME AIN Toll-Free Pay Phone
*2. MODULE OFC RELEASE 5E13(1)
3. ACTIVE N

AUDIT LIST

==========

Milwaukee 10 DS0 Test Office (MILWWI10DS0)

RC/V 8.22

5ESS SWITCH 3219D0
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

*1. FEATURE ID 38
*2. MODULE OFC
3. PASSWD
4. ACTIVE Y
FEATURE NAME Flexible ANI
RELEASE 5E6
DEPENDENT ID 142
MAP X
MAP Y
10. DEACT FEATURES N

ROW	16. MAP LIST		
1		12	
2		13	
3		14	
4		15	
5		16	
6		17	
7		18	
8		19	
9		20	
10		21	
11		22	

5ESS SWITCH 3219D0
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

*1. FEATURE ID 142
*2. MODULE OFC
3. PASSWD
4. ACTIVE Y

ROW	16. MAP LIST		
1		12	
2		13	
3		14	

```
    FEATURE NAME    Flexible ANI Enhancements    4 _____    15 _____
    RELEASE         5E9(1)                       5 _____    16 _____
    DEPENDENT ID    0                            6 _____    17 _____
    MAP X           _____                        7 _____    18 _____
    MAP Y           _____                        8 _____    19 _____
10. DEACT FEATURES  N                            9 _____    20 _____
                                                10 _____    21 _____
                                                11 _____    22 _____
```

```
                                        5ESS SWITCH 3219D0
SCREEN 1 OF 3                         RECENT CHANGE  8.22
(57131)                          SECURED FEATURE UPGRADE

*1. FEATURE ID      332                          ROW      16. MAP LIST
*2. MODULE          OFC                           1 _____    12 _____
 3. PASSWD          _____                         2 _____    13 _____
 4. ACTIVE          N                             3 _____    14 _____
    FEATURE NAME    Payphone Comp of Tollfree     4 _____    15 _____
    RELEASE         5E11(1)                       5 _____    16 _____
    DEPENDENT ID    0                             6 _____    17 _____
    MAP X           _____                         7 _____    18 _____
    MAP Y           _____                         8 _____    19 _____
10. DEACT FEATURES  N                             9 _____    20 _____
                                                 10 _____    21 _____
                                                 11 _____    22 _____
```

```
                                        5ESS SWITCH 3219D0
SCREEN 1 OF 3                         RECENT CHANGE  8.22
(57131)                          SECURED FEATURE UPGRADE

*1. FEATURE ID      528                          ROW      16. MAP LIST
*2. MODULE          OFC                           1 _____    12 _____
 3. PASSWD          _____                         2 _____    13 _____
 4. ACTIVE          N                             3 _____    14 _____
    FEATURE NAME    ASP Interwork w/ Flex ANI     4 _____    15 _____
    RELEASE         5E13(1)                       5 _____    16 _____
    DEPENDENT ID    0                             6 _____    17 _____
    MAP X           _____                         7 _____    18 _____
    MAP Y           _____                         8 _____    19 _____
10. DEACT FEATURES  N                             9 _____    20 _____
                                                 10 _____    21 _____
                                                 11 _____    22 _____
```

RC/V 8.31

```
                                        5ESS SWITCH 3219D0
                                      RECENT CHANGE  8.31
(57132)                          OPTIONED FEATURES

*1. FEATURE ID   744          FEATURE NAME  AIN Flex ANI
*2. MODULE       OFC          RELEASE       5E13(1)
 3. ACTIVE       N

                                AUDIT LIST

    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____
```

```
                                        5ESS SWITCH 3219D0
                                      RECENT CHANGE  8.31
(57132)                          OPTIONED FEATURES

*1. FEATURE ID   745          FEATURE NAME  AIN Toll-Free Pay Phone
*2. MODULE       OFC          RELEASE       5E13(1)
```

3. ACTIVE N

AUDIT LIST

E-mail 3

-----Original Message-----
From: Wright, Kathryn [mailto:wright@tri.sbc.com]
Sent: Friday, February 23, 2001 4:23 PM
To: CANNON, TIM G. (AIT); GRUCHALA, CAROL (AIT)
Cc: HAMILTON-OPPER, SALLY (AIT); BLACKBURN, STEVE (AIT); HOWARD, JAMES D. (AIT)
Subject: RE: SFID and OFID Features for FlexANI in LT/ST 5ESS Test Offices

Tim,

These 4 SFIDs are set to YES in the lab switch: 38, 142, 332, 528.
These 2 OFIDs are set to YES in the lab switch: 744, 745.

In every case, the feature is set for the office: [O] or [OFC].

Kathy

==========

Feature Summary in LT/ST Test Offices

	CHCGILFRDS3	MILWWI10DS0
SFID 38 -	Y	Y
SFID 142 -	Y	Y
SFID 332 -	N	N
SFID 528 -	N	N
OFID 744 -	N	N
OFID 745 -	N	N

Feature Definitions

SFID 38

From: 235-080-100 - Translations Guide (TG5)
DIV. 2: Features, SEC. 4A: Secured Features

SEC. 4A38: FLEXIBLE ANI INFORMATION DIGITS ASSIGNMENT

1. FEATURE DESCRIPTION

FLEX ANI (Flexible ANI Information Digits Assignment Feature) is the flexible

assignment of two digit ANI Pairs. The feature is a secured feature and is available with 5E6 and later Software Releases.

FLEX ANI via Recent Change offers the purchaser the following capabilities:

Allows the purchaser to assign new ANI pairs based on originating class of service.

Allows the purchaser to assign new ANI pairs based on Route Index that can be entered via Recent Change.

Leaves both existing service and class of service hard coded ANI pairs to co-exist with the Flexible ANI capability.

Allows the purchaser to verify the current list of assigned ANI pairs.

2. TRANSLATION REQUIREMENTS

New Or Modified ODA Forms

Form Name	Record Number	Division	Section	RC View
SFSYS	5713-1	3	5AR	8.22
RTIDX	5303	3	3P	10.2
MCRTIDX	5304	3	3Q	10.4

SFSYS form (5713-1 Record) - This form is used by the SEE (AT&T System Equipment Engineer) to enable Secured System Optional Features for an entire 5ESS Switch or for selected Switching Modules. Secured Feature ID 38 must be set to "S" on the SFSYS form to make FLEX ANI functional for the office.

RTIDX form (5303 Record) - Used to define each Route Index in a 5ESS office. The 5303 Record is intended to be used as an office record and as a source document for data entry into the RTIDX form.

MCRTIDX form (5304 Record) - Used to determine routing for various BRCS capabilities.

SFID 142

From: 235-080-100 - Translations Guide (TG5)
DIV. 2: Features, SEC. 4A: Secured Features

SEC. 4A142: FLEXIBLE ANI ENHANCEMENT

1. BACKGROUND

ANI (Automatic Number Identification) causes the local switch to outpulse the identity of the originating station on a CAMA (Centralized Automatic Message Accounting), TSPS (Traffic Service Position System), E911, Operator Services System, IC (InterLATA Carrier), or INC (International Carrier) trunk. ANI information digits are 1- or 2-digit codes that precede the 7- or 10-digit DN (Directory Number) of the calling party. One digit ANI information digits are used when a call is routed on a CAMA, E911, or TSPS trunk. Two digit ANI information digits (also called II digits, or ANI pairs) are used for equal access, when routing a call to an InterLATA or International Carrier, or to an Operator Services System.

The purpose of the ANI information digits is to provide information about the calling party DN, which is then used for billing and/or routing purposes.

The Flexible ANI Enhancement feature allows the switch owner to assign ANI information digits based on screen indexes and to supply the ANI pairs to ICs that want to do their own billing. Flexible assignment applies only to 2-digit ANI information digits.

2. FEATURE DESCRIPTION

Available with 5E9(1) and later, the Flexible ANI Enhancement feature has feature number 99-5E-1337. It is a Secured Feature using SFID (Secured Feature ID) 142 and must be purchased to be activated. It is dependent on the Flexible ANI base feature (SFID 038), which must also be purchased and activated.

The Flexible ANI Enhancement feature provides the ability to send ANI II digits, associated with a screen index, on a per carrier basis. In particular, it allows the switch owner to:

assign ANI II digits to a screen index, and

control whether the ANI II digits will be sent to a carrier.

When more than one ANI pair applies to a call, only one pair is assigned according to the following precedence (highest to lowest):

InterLATA Restricted ANI pairs (08, 68, 78)

Hardcoded feature ANI pairs, e.g. SSP800, ASP

Service-related Flexible ANI pairs associated with simulated facilities, e.g.
OUTWATS, SDN

Service-related Flexible ANI pairs associated with dedicated access facilities, e.g. dedicated access OUTWATS

Screen Index-related ANI pairs (Flexible ANI Enhanced feature)

Class of Service Flexible ANI pairs (Flexible ANI base feature)

Hardcoded Class of Service ANI pairs, ANI6, or ANI7, e.g. multiparty, coin.

This feature supports both line and trunk originations.

3. FEATURE ASSIGNMENT

To enable this feature, SFID 142 on the SFSYS form (5713-1 Record) must have ACT set to "Y"; and SFID 038 (the Flexible ANI base feature) must have ACT set to "Y".

In addition, ANI II digits must be associated with screen indexes on the SCRIDXPA form (5543 Record). Sending ANI II digits (associated with the screen index) to a carrier must be allowed in the SEND ANI II field on the ICF form (5305-1/2 Record).

See Figure 1 for a Flexible ANI Enhancement form flow.

4. TRANSLATION REQUIREMENTS

New and Modified ODA Forms

Form Name	Record Number	Div.	Sec.	RC View
ICF	5305-1/2	3	3R	10.3
SCRIDXPA	5543	3	5AQ	8.24
SFSYS	5713-1	3	5AR	8.22

ICF form (5305-1/2 Record) - This form is used to define the characteristics of an IC (InterLATA Carrier).

The field SEND ANI II was added for this feature. This field determines if the ANI II digits associated with a screen index on the SCRIDXPA form will be sent on calls for the IC.

SCRIDXPA form (5543 Record) - This form is used to assign parameters to a line or trunk on a per screening index basis.

The field ANI II DIGITS was added for this feature. It associates the ANI digits with the screen index.

SFSYS form (5713-1 Record) - This form is used by the SEE (AT&T System Equipment Engineer) to enable the feature for the operating company. Secured Feature ID 142 on the SFSYS form must have ACT set to "Y" to enable the Flexible ANI Enhancement feature.

Figure 1 FLEXIBLE ANI ENHANCEMENT FORM FLOW

SFID 332

From: 235-080-100 - Translations Guide (TG5)
DIV. 2: Features, SEC. 4A: Secured Features

SEC. 4A332: PAY PHONE COMPENSATION FOR TOLLFREE CALLS

1. BACKGROUND

ANI (Automatic Number Identification) causes the local switch to outpulse the identity of the originating station to CAMA (Centralized Automatic Message Accounting), TSPS (Traffic Service Position System), E911, OS (Operator Service), Access Tandem, IC (Inter-LATA carrier), or INC (International Carrier). ANI information digits are 1 or 2-digit codes that precede the 7 or 10 digit DN (Directory Number) of the calling party. One digit ANI information (ANI I) is used when a call is routed to CAMA, E911, or TSPS. Two digit ANI information (also called ANI II, II digits, or ANI pairs) are used for equal access use, when routing a call to a carrier, or to an OS system. The purpose of the ANI information digits is to provide information about the calling party DN, which is then used for billing and/or routing purposes.

All 1-digit ANI codes are hardcoded. 2-digit ANI codes can be hardcoded or assigned through Recent Change using Flexible ANI Information Digits Assignment (SFID 38) or "Flexible ANI Enhancement" (SFID 142) features. The SFID 38 feature allows the switch owner to assign ANI II DIGITS based on the RTIDX form (5303 Record), MC ROUTE INDEX field on the MCRTIDX form (5304 Record), and Class of Service of a line. The SFID 142 feature allows the switch owner to assign ANI II DIGITS based on a line's Screen Index with an associated per carrier send/no-send parameter SEND ANI II on the ICF form (5305-1/2 Record). If Flexible ANI II DIGITS are assigned in multiple forms and if they are hard-coded ANI II DIGITS, II digits are selected according to the following precedence rules (from highest to lowest):

1. Inter-LATA Restricted ANI pairs (08, 68, 78).

2. Hard-coded feature ANI pairs (e.g., SSP800).

3. Service-associated Flexible ANI pairs associated with simulated facilities
(e.g., OUTWATS, SDN).

4. Service-associated Flexible ANI pairs associated with dedicated access facilities (e.g., dedicated access OUTWATS).

5. Screen Index-associated Flexible ANI pairs.

6. Class-of-service Flexible ANI pairs.

7. Hard-coded class-of-service ANI pairs, or ANI6 or ANI7 (e.g., multiparty,
coin).

2. FEATURE DESCRIPTION

Available with 5E11 and later Software Releases, feature 99-5E-4868 "Pay Phone Compensation for Tollfree Calls" and feature 99-CP-4847 "Tollfree Calling Enhancement for Flexible ANI II" are combined together in this feature and can be locked and unlocked using SFID 332.

2.1 Feature Definition for 99-5E-4868

The Pay Phone Compensation for Tollfree Calls feature provides the capability to identify tollfree calls, as well as the type of pay phone originating the call, when the tollfree number is translated to a POTS number (see Figure 1). The identification of the pay phones originating a Tollfree call is achieved by associating a unique Tollfree II digits for each type of pay phone. For Tollfree calls after performing an SCP query for which the SCP has returned a POTS number (translated number) and a carrier, the switch maps the Original II digits to Tollfree II digits and signal the Tollfree II digits to the carrier, if the Tollfree II Subscription is set to "Y" for that carrier.

NOTE: Currently, Tollfree calls translated to a POTS number are sent to the carrier with II digits of 24 overriding the Original II digits, for calls originated from all types of phones, thus the carrier cannot determine the identity of the originating phone. The Tollfree II digits provides the identity of the originating phone to the carrier for Tollfree calls. If Tollfree II Subscription is set to "N" for the carrier, II digits of 24 are sent to the carrier. The Original II to Tollfree II mapping table may look like the following:

Original II	Tollfree II*	Type of Phone
27	XD (e.g., 25)	Network Controlled (dumb) Payphone
70	XE (e.g., 25)	COCOT (Smart Payphone)
29	XF (e.g., 25)	Inmate Phone
etc.	etc.	etc.

* Industry Assigned

The industry has agreed that an II value of 25 should be signaled for tollfree calls that originate from a paystation and route to a carrier with a translated number.

XD, XE, and XF are II digits chosen from unused II digits 00 through 99. The switch owners need to standardize the values for XD, XE, and XF, etc., so that these II digits become uniform across the entire network. The mapping table will have any set of digits, 00 through 99 as valid entries or it may be left blank. If the valid entry is blank, no change or modifications to the number will be made based on the mapping table. The Original II to Default II mapping will be done once.

NOTE: The switch owner identifies a network controlled phone with II of 27, a COCOT phone with II of 70, and an inmate phone with II of 29. With this feature, XD=25 means a Tollfree call from any payphone.

This feature applies to a 5ESS Switch serving as an Access Tandem or EO. In the case of an Access Tandem (Access Tandem does the SCP query), the Original II digits will be the II digits received in the signaling message from the EO where the call has originated. In the case of EO (the EO does the SCP query), the Original II digits will be the digits as determined by call processing.

This feature applies only when the Tollfree number is translated to a POTS number by the SCP. This feature applies to SSP800 (IN) Tollfree calls only. This feature does not apply to AIN (ASP) Tollfree calls.

2.2 Feature Definition for 99-CP-4847

The Tollfree Calling Enhancement for Flexible ANI II feature provides the mechanism to restrict or allow forwarding of Original II digits subsequent to SCP (Service Control Point) queries on a per carrier basis for non-translated Tollfree calls (see Figure 2). The 5ESS Switch Tandem/EO (End Office) would provide a Default II Subscription indication with a "Y" or "N" (default) value on a per carrier basis. After performing an SCP query for which the SCP has returned a carrier ID and a Tollfree number (non-translated Tollfree number), the switch checks the carrier Default II Subscription. If "N", the Original II digits are forwarded as received from the EO. If "Y", the Original II digits received from the EO are checked to determine which Default II values to forward. The Original II to Default II mapping would be recent changeable. For example, the Original II to Default II mapping table may look like the following table:

Original II	Default II*	Type of Phone
27	XA (e.g., 27)	Network Controlled (dumb) Pay phone
70	XB (e.g., 07)	COCOT (Smart Pay phone)
29	XC (e.g., 07)	Inmate Phone
etc.	etc.	etc.

* Industry Assigned

XA, XB, and XC represent customer assignable II digits. The switch owners need to standardize the values for XA, XB, and, XC etc., so that these II digits become uniform across the entire network. The mapping table will have any II digits 00 through 99 as valid entries or left blank. If the valid entry is blank, no change or modifications to the number will be made based on the mapping table. The Original II to Default II mapping will be done once.

This feature applies to 5ESS Switch serving as an Access Tandem or EO. In the case of an Access Tandem (Access Tandem does the SCP query), the Original II digits will be the II digits received in the signaling message from the EO where the call has originated. In the case of EO (the EO does the SCP query), the Original II digits will be the digits as determined by call processing.

This feature applies only when the Tollfree number is not translated to a POTS number by the SCP. This feature applies to SSP800 (IN) Tollfree calls only. This feature does not apply to AIN (Advanced Intelligent Networks) (ASP) Tollfree calls.

3. TRANSLATION REQUIREMENTS

New or Modified ODA Forms

Form Name	Record Number	Division	Section	RC View

ICF	5305-1/2	3	3R	10.3
SFSYS	5713-1	3	5AR	8.22
TFANI	5578	3	5BS	8.74

ICF form (5305-1/2 Record) - This form is used to define the characteristics of Inter-LATA (Local Access Transport Area) and Intra-LATA carriers.

SFSYS form (5713-1 Record) - This form is used to activate secured features. This feature is activated by setting the ACT field for SFID 332 to "Y".

TFANI form (5578 Record) - This form is used to map Original II digits to Default II digits and Tollfree II digits.

Figure 1 FEATURE 99-CP-4868, FLEXIBLE ANI 800 APPLICATION FOR CONVERTED POTS NUMBER

Figure 2 FEATURE 99-CP-4847, FLEXIBLE ANI 800 APPLICATION FOR NON-CONVERTED POTS NUMBER

Figure 3 FORM FLOW FOR PAY PHONE COMPENSATION FOR TOLL FREE CALLS

SFID 528

From: 235-080-100 - Translations Guide (TG5)
DIV. 2: Features, SEC. 4A: Secured Features

SEC. 4A528: ASP TOLL FREE SERVICE INTERACTION WITH FLEXIBLE ANI

1. FEATURE DESCRIPTION

The ASP (Advanced Services Platform) Toll Free Service Interaction with Flexible ANI (Automatic Number Identification) feature is a secured feature (SFID 528) that is being deployed on the 5ESS Switch in a Software Update for 5E14 and in the 5E13 Software Release. The feature number for this feature is 99-5E-7302.

Prior to this feature, the "Flexible ANI" features on the 5ESS Switch were not interacting with ASP. If customers are choosing to implement "Toll Free" service using ASP triggers (or AIN Toll Free Service), Toll Free calls from Pay Phones must be allowed.

This feature provides the functionality required for Pay Phone Compensation for
Toll Free Calls and Enhancements to the Flexible ANI feature (SFID 332). For more information on this feature, see Division 2, Section 4A322.

This feature will interact with the following "Flexible ANI" features:

Flexible ANI Information Digits Assignment (SFID 38). For more information on
this feature, see Division 2, Section 4A38.

Flexible ANI Enhancements (SFID 142). For more information on this feature,
see Division 2, Section 4A142.

Tollfree Calling Enhancement for Flexible ANI and Pay Phone Compensation for
Toll Free Calls (SFID 332).

1.1 Call Processing Impacts

AIN Toll Free Calls:

When an ASP TF (Transparency Features) routing response (e.g., Analyze Route message) is received without a CPST (Charge Party Station Type) parameter, indicating the SCP (Service Control Point) has not translated the dialed Toll Free number, then if this feature is unlocked (SFID 528) and the AIN TF Pay Phone Compensation TFOS ((Transparency Feature Optioning System) bit (OFID 745)) is set to yes, the switch invokes feature 99-5E-4847 (Toll Free Calling Enhancement for Flexible ANI) (SFID 142). Invoking this feature, derives Flexible ANI II and perform Default II Pay Phone Compensation mapping. The result will be the new ANI II/OLI (Originating Line Identity) digits which will be used in outgoing signaling.

When an ASP TF routing response (Analyze Route message) is received with a CPST parameter set to "24", an indication that the SCP has translated the dialed Toll Free number, then if this feature is unlocked (SFID 528) and the AIN TF Pay Phone Compensation TFOS bit (OFID 745) is set to yes, the 5ESS Switch will invoke feature 99-5E-4868 (Pay Phone Compensation for Toll Free Calls) (SFID 332). Invoking this feature, derives Flexible ANI II digits, and then performs Pay Phone Compensation mapping. In this case, however, if the Flexible ANI II digits are not mapped, the switch will use a value of 24.

When an ASP routing response (Analyze Route message) is received with a CPST parameter set to a value other than 24, the 5ESS Switch will not derive Flexible ANI II digits or perform Pay Phone Compensation. In this case, the switch is assuming that the Flexible ANI and Pay Phone Compensation feature functionality has been incorporated into the SCP application logic.

Non-Toll Free AIN Calls:

For non-Toll Free AIN calls, the 5ESS will NOT invoke the Flexible ANI feature if the SCP returns a CPST parameter in the routing message. If no CPST parameter is included, then the switch will invoke the Flexible ANI feature if this feature (ASP Toll Free with Flexible ANI) is unlocked (SFID 528) and the TFOS bit (OFID 744) is set to "Yes".

2. FEATURE ASSIGNMENT

The provisioning of this feature is as follows:

Set the ACT fields for SFID 126, SFID 332, and SFID 528, on the SFSYS form
(5713-1 Record) to "Y".

Set the ACT fields for OFID 744 and OFID 745, on the FOSYS form (5713-2 Record) to "Y".

No other forms are impacted by this feature.

3. TRANSLATION REQUIREMENTS

New and Modified ODA Forms

Form Name	Record Number	Division	Section	RC View
FOSYS	5713-2	3	5AS	8.31
SFSYS	5713-1	3	5AR	8.22

FOSYS form (5713-2 Record) - This form is used to administer TFOS (Transparency Feature Optioning System) bits for Special and Transparency Features. For 5E9(1) and later, these TFOS IDs (Transparency Feature IDs) are called OFS IDs (Optioned Feature System IDs). Transparency Features have been developed to replicate features that exist on the 1A ESS Switch. To activate the ASP Toll Free with Flexible ANI feature for an office, the ACT

fields for OFID 744 and OFID 745, must be set to "Y" on this form.

SFSYS form (5713-1 Record) - This form is used to enable secured features. To activate the ASP Toll Free with Flexible ANI feature, the ACT fields for SFID 126, SFID 332, and SFID 528, must be set to "Y" on this form.

SFID 528

From: 235-190-126 - Issue 8.00B - Advanced Services Platform, Release 0.1B

2.8.2.3 Secured Feature ID 528 - ASP Interactions with Flex ANI Features

The purpose of ASP Interactions with Flex ANI Features (99-5E-7302) is to allow
the Advanced Services Platform to interact with Flex ANI features for AIN tollfree and non-tollfree calls. When the Secured Feature ID for this feature is
unlocked and the OFIDs controlling its operation are activated appropriately,
the ANI II/OLI determined post query can be generated through interactions with
Flex ANI and Payphone Compensation.

Flex ANI features include:

Flexible ANI Information Digits Assignment (Refer to section 11.2.20) and Flexible ANI Enhancements.

Toll-free Calling enhancements for Flex ANI II and Payphone Compensation for Toll Free Calls.

Toll Free AIN Calls

If this feature is active and the AIN TF PayPhone Compensation TFOS bit (OFID
745) is set to "Y", and an ASP TF routing response (such as an AnalyzeRoute message) is received without a ChargePartyStationType (CPST) parameter (indicating the SCP has not translated the dialed Toll Free number), the switch
will invoke the Toll Free Calling Enhancement for Flexible ANI (99-5E-4847) feature to derive Flexible ANI II and perform Default II PayPhone Compensation
mapping. This will result in new ANI II/OLI digits which will be used in outgoing signaling.

If this feature is active and the AIN TF PayPhone Compensation TFOS bit (OFID
745) is set to "Y", and an ASP TF routing response (such as an AnalyzeRoute message) is received with a ChargePartyStationType (CPST) parameter set to 24
(indicating the SCP has translated the dialed Toll Free number), the switch will
invoke the Pay Phone Compensation for Toll Free Calls feature (99-5E-4868) to
derive Flexible ANI II, and then perform PayPhone Compensation mapping. If the
Flexible ANI II digits are not mapped the switch will use a value of "24."

When an ASP routing response (AnalyzeRoute message) is received with a ChargePartyStationType (CPST) parameter set to a value other than 24, the switch
will not invoke derive Flex ANI II digits or perform PayPhone Compensation. In
this case, the switch assumes that Flex ANI and Pay Phone compensation

feature
functionality has been incorporated into the SCP application logic.

Non-Toll Free AIN calls

For non-Toll Free AIN calls, the switch will not invoke the Flex ANI feature if
the SCP returns a ChargePartyStationType (CPST) parameter in the routing message. If no ChargePartyStationType (CPST) parameter is included, the switch
will invoke the Flex ANI feature if this feature is active and the TFOS bit (CFID 744) is set to "Y".

Dependencies

The following features must be previously unlocked in order to unlock this feature:

5ESS ASP 0.1B Feature (SFID 126)

Toll Free Calling Enhancement for Flexible ANI (SFID 332).

After encountering the appropriate ASP trigger, the SCP will control FlexANI II
digits derivation and mapping based on the ChargePartyStationType (CPST) parameter and PrimaryCarrier in its response of Analyze Route or Forward Call.
The SCP needs to provide a carrier to use FlexANI II digits derivation and mapping for the feature. The PrimaryCarrier parameter may be provisioned using
RC/V View 10.3. Mapping may be provisioned using RC/V View 8.47.

Activation

For AIN interworking with Flex ANI and Payphone Compensation, administration consists of unlocking SFID 528 and activating the two OFIDs which determine whether ANI tollfree and non-tollfree calls interwork with Flex ANI II and whether AIN tollfree calls interwork with Payphone Compensation.

OFID 744 determines whether non-Toll Free AIN calls will derive Flex ANI II digits.

OFID 745 determines whether Toll Free AIN calls will undergo derivation of Flex
ANI II and Payphone Compensation.

AIN calls use DNTs as AIN Toll Free triggers through a parameter on RC View 9.35.

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Chicago Franklin DS3 Test Office (CHCGILFRDS3) 02/23/01

RC/V 8.22

5ESS SWITCH 1518D3
SCREEN 1 OF 3 RECENT CHANGE 8.22
(57131) SECURED FEATURE UPGRADE

		ROW	16. MAP LIST	
*1. FEATURE ID	38	1		12
*2. MODULE	OFC	2		13
3. PASSWD		3		14
4. ACTIVE	Y	4		15
FEATURE NAME	Flexible ANI			

```
    RELEASE          5E6                          5 _____    16 _____
    DEPENDENT ID     142                          6 _____    17 _____
    MAP X            _____                        7 _____    18 _____
    MAP Y            _____                        8 _____    19 _____
10. DEACT FEATURES   N                            9 _____    20 _____
                                                 10 _____    21 _____
                                                 11 _____    22 _____
```

```
                                        5ESS SWITCH 1518D3
SCREEN 1 OF 3                         RECENT CHANGE  8.22
(57131)                          SECURED FEATURE UPGRADE

*1. FEATURE ID       142                      ROW      16. MAP LIST
*2. MODULE           OFC                       1 _____    12 _____
 3. PASSWD           _____                     2 _____    13 _____
 4. ACTIVE           Y                         3 _____    14 _____
    FEATURE NAME     Flexible ANI Enhancements 4 _____    15 _____
    RELEASE          5E9(1)                    5 _____    16 _____
    DEPENDENT ID     0                         6 _____    17 _____
    MAP X            _____                     7 _____    18 _____
    MAP Y            _____                     8 _____    19 _____
10. DEACT FEATURES   N                         9 _____    20 _____
                                              10 _____    21 _____
                                              11 _____    22 _____
```

```
                                        5ESS SWITCH 1518D3
SCREEN 1 OF 3                         RECENT CHANGE  8.22
(57131)                          SECURED FEATURE UPGRADE

*1. FEATURE ID       332                      ROW      16. MAP LIST
*2. MODULE           OFC                       1 _____    12 _____
 3. PASSWD           _____                     2 _____    13 _____
 4. ACTIVE           N                         3 _____    14 _____
    FEATURE NAME     Payphone Comp of Tollfree 4 _____    15 _____
    RELEASE          5E11(1)                   5 _____    16 _____
    DEPENDENT ID     0                         6 _____    17 _____
    MAP X            _____                     7 _____    18 _____
    MAP Y            _____                     8 _____    19 _____
10. DEACT FEATURES   N                         9 _____    20 _____
                                              10 _____    21 _____
                                              11 _____    22 _____
```

```
                                        5ESS SWITCH 1518D3
SCREEN 1 OF 3                         RECENT CHANGE  8.22
(57131)                          SECURED FEATURE UPGRADE

*1. FEATURE ID       528                      ROW      16. MAP LIST
*2. MODULE           OFC                       1 _____    12 _____
 3. PASSWD           _____                     2 _____    13 _____
 4. ACTIVE           N                         3 _____    14 _____
    FEATURE NAME     ASP Interwork w/ Flex ANI 4 _____    15 _____
    RELEASE          5E13(1)                   5 _____    16 _____
    DEPENDENT ID     0                         6 _____    17 _____
    MAP X            _____                     7 _____    18 _____
    MAP Y            _____                     8 _____    19 _____
10. DEACT FEATURES   N                         9 _____    20 _____
                                              10 _____    21 _____
                                              11 _____    22 _____
```

RC/V 8.31

```
                                        5ESS SWITCH 1518D3
                                      RECENT CHANGE  8.31
(57132)                          OPTIONED FEATURES
```

```
*1. FEATURE ID   744          FEATURE NAME  AIN Flex ANI
*2. MODULE       OFC          RELEASE       5E13(1)
 3. ACTIVE       N
                              AUDIT LIST
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________
```

```
                                   5ESS SWITCH 1518D3
                                RECENT CHANGE  8.31
(57132)                       OPTIONED FEATURES

*1. FEATURE ID   745          FEATURE NAME  AIN Toll-Free Pay Phone
*2. MODULE       OFC          RELEASE       5E13(1)
 3. ACTIVE       N
                              AUDIT LIST
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________     _________
    _________    _________    _________     _________
```

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Milwaukee 10 DS0 Test Office (MILWWI10DS0) 02/23/01

RC/V 8.22

```
                                   5ESS SWITCH 3219D0
SCREEN 1 OF 3                   RECENT CHANGE  8.22
(57131)                       SECURED FEATURE UPGRADE

*1. FEATURE ID     38                    ROW      16. MAP LIST
*2. MODULE         OFC                    1 _________    12 _________
 3. PASSWD         _________              2 _________    13 _________
 4. ACTIVE         Y                      3 _________    14 _________
    FEATURE NAME   Flexible ANI           4 _________    15 _________
    RELEASE        5E6                    5 _________    16 _________
    DEPENDENT ID   142                    6 _________    17 _________
    MAP X          _________              7 _________    18 _________
    MAP Y          _________              8 _________    19 _________
10. DEACT FEATURES N                      9 _________    20 _________
                                         10 _________    21 _________
                                         11 _________    22 _________
```

```
                                   5ESS SWITCH 3219D0
SCREEN 1 OF 3                   RECENT CHANGE  8.22
(57131)                       SECURED FEATURE UPGRADE

*1. FEATURE ID     142                   ROW      16. MAP LIST
*2. MODULE         OFC                    1 _________    12 _________
 3. PASSWD         _________              2 _________    13 _________
 4. ACTIVE         Y                      3 _________    14 _________
    FEATURE NAME   Flexible ANI Enhancements 4 _________  15 _________
    RELEASE        5E9(1)                 5 _________    16 _________
    DEPENDENT ID   0                      6 _________    17 _________
    MAP X          _________              7 _________    18 _________
    MAP Y          _________              8 _________    19 _________
10. DEACT FEATURES N                      9 _________    20 _________
                                         10 _________    21 _________
                                         11 _________    22 _________
```

```
                                        5ESS SWITCH 3219D0
SCREEN 1 OF 3                          RECENT CHANGE  8.22
(57131)                              SECURED FEATURE UPGRADE

*1. FEATURE ID      332                      ROW      16. MAP LIST
*2. MODULE          OFC                       1 _____        12 _____
 3. PASSWD          _____                     2 _____        13 _____
 4. ACTIVE          N                         3 _____        14 _____
    FEATURE NAME    Payphone Comp of Tollfree 4 _____        15 _____
    RELEASE         5E11(1)                   5 _____        16 _____
    DEPENDENT ID    0                         6 _____        17 _____
    MAP X           _____                     7 _____        18 _____
    MAP Y           _____                     8 _____        19 _____
10. DEACT FEATURES  N                         9 _____        20 _____
                                             10 _____        21 _____
                                             11 _____        22 _____

                                        5ESS SWITCH 3219D0
SCREEN 1 OF 3                          RECENT CHANGE  8.22
(57131)                              SECURED FEATURE UPGRADE

*1. FEATURE ID      528                      ROW      16. MAP LIST
*2. MODULE          OFC                       1 _____        12 _____
 3. PASSWD          _____                     2 _____        13 _____
 4. ACTIVE          N                         3 _____        14 _____
    FEATURE NAME    ASP Interwork w/ Flex ANI 4 _____        15 _____
    RELEASE         5E13(1)                   5 _____        16 _____
    DEPENDENT ID    0                         6 _____        17 _____
    MAP X           _____                     7 _____        18 _____
    MAP Y           _____                     8 _____        19 _____
10. DEACT FEATURES  N                         9 _____        20 _____
                                             10 _____        21 _____
                                             11 _____        22 _____

RC/V 8.31

                                        5ESS SWITCH 3219D0
                                       RECENT CHANGE  8.31
(57132)                              OPTIONED FEATURES

*1. FEATURE ID   744          FEATURE NAME  AIN Flex ANI
*2. MODULE       OFC          RELEASE       5E13(1)
 3. ACTIVE       N

                                   AUDIT LIST

    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____

                                        5ESS SWITCH 3219D0
                                       RECENT CHANGE  8.31
(57132)                              OPTIONED FEATURES

*1. FEATURE ID   745          FEATURE NAME  AIN Toll-Free Pay Phone
*2. MODULE       OFC          RELEASE       5E13(1)
 3. ACTIVE       N

                                   AUDIT LIST

    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____        _____
    _____        _____        _____        _____

> -----Original Message-----
```

> From: CURTIN, TYRONE D. (AIT)
> Sent: Tuesday, May 15, 2001 1:12 PM
> To: CANNON, TIM G. (AIT)
> Subject: Flex ANI with LTST
>
> Hi Tim,
> It's been a while since I've talked to you.
>
> I'm asking for your expertise on the subject of the Flex ANI feature
> with LTST.
> This has probably come up with Sally Opper and I'm not trying to go
> around her, I just wanted to talk
> directly with you about this. Am I correct in saying that without 2
> new SFIDs in the Lucent switches
> Flex ANI will not work with LTST??? However, it works fine in DMS
> 100 and EWSD switches??
>
> Also, if this is the case in Ameritech, won't SWBT experience the
> same problem (because of LRS - their version of LTST)
> or are they on a different switch release?
>
> Thanks,
>
> Ty Curtin
> AIT UNE-P Product Manager
> 312-335-6632